



Have any Doubt?

Your answer is Correct1





Abhrajyoti Kundu

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BASIC LEVEL FULL SYLLABUS TEST -1 (GATE 2023) - REPORTS

OVERALL ANALYSIS COMPARISON REPORT ALL(65) CORRECT(44) INCORRECT(14) SKIPPED(7)

The sum of the possible values of x satisfying the equation |x+6|+|x-7|=14 is.....

1 (1 - 1)

Q. 1

Solution:

1(1-1)

|x+6|+|x-7| = 14x < -6-(x + 6) - (x - 7) = 14Case-1: -2x + 1 = 14

 $2x = -\frac{13}{2} = -6.5$ $-6 \le x < 7$

Case-2: (x + 6) - (x - 7) = 14

13 = 14 which is not possible

Case-3: $x \geq 7$ (x + 6) + (x - 7) = 142x - 1 = 14

2x = 15x = 7.5

 \therefore Sum of all possible values of x = 7.5 - 6.5 = 1

QUESTION ANALYTICS

The sum of all 3 digit numbers that leave a remainder of '2' when divided by 3 is_____.

164850 (16849 - 164851)

Your answer is Correct164850

Q. 2

Solution: 164850 (16849 - 164851)

The series will be the form: 101, 104, 107,, 995, 998.

It will have a total of 300 terms (999 - 100 + 1 = 900 take $\frac{1}{3}$ of this since only 1 term is there in

every 3)

Sum = $\frac{\left(1^{\text{st}} \text{ Number} + n^{\text{th}} \text{ Number}\right)}{2} \times n$ $= \frac{\left(101 + 998\right)}{2} \times 300 = 164850$ Now,

QUESTION ANALYTICS

Two positions of a dice are shown. When 4 is at bottom, the number that will be on the top is_____.





Q. 3

Your answer is Correct

(Have any Doubt ?

From figures, we conclude that 2, 3, 5 and 6 are adjacent to 1. Therefore, 4 lies opposite 1. Hence, when 4 is at the bottom, then 1 must be on the top.





